	Туре	L#	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	0	(global near2 marking) and "garbage collection" and space-incremental-collection	1 '	2006/09/11 18:09
2	BRS	L2	3	(global near2 marking) and "garbage collection"	1 1	2006/09/11 18:17
3	BRS	L3	2	"6343376".pn.	US- PGPUB; USPAT; EPO; JPO; DERWE NT; IBM_TD	2006/09/11 18:24

	Туре	L#	Hits	Search Text	DBs	Time Stamp
4	BRS	L4	2	"6826583".pn.		2006/09/11 21:14
5	BRS	L5	4	"6185581".pn. or "6393439".pn.	1	2006/09/11 21:14

Sign in



 Web
 Images
 Video
 News
 Maps
 more »

 global marking and space-incremental collectic
 Search
 Advanced Search

 Preferences
 Preferences

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web

Results 1 - 10 of about 20 for global marking and space-incremental collection. (0.37 seconds)

Did you mean: global marketing and space-incremental collection

Citations: Real-time garbage collection on general-purpose ...

Therefore, at the end of a marking phase, the relocated objects of the previous collection can be freed. Arraylets. Large arrays are . ...

citeseer.ist.psu.edu/context/37069/0 - 35k - Cached - Similar pages

Citations: A concurrent generational garbage collector for a ...

RELATED WORK Incremental concurrent mark sweep collectors have been widely ... access to immutable objects in from space. Incremental schemes have also been ... citeseer.ist.psu.edu/context/507294/8061 - 44k - Cached - Similar pages
[More results from citeseer.ist.psu.edu]

## [PDF] Java performance

File Format: PDF/Adobe Acrobat - View as HTML

a collection. This takes time and space and may be unacceptable in memory-constrained embedded ... mark-sweep, reference counting, two-space, incremental, ...

www.csd.uoc.gr/~hy252/project\_old/performance.pdf - Similar pages

# [PDF] J2EE Technology Performance Tuning Guide

File Format: PDF/Adobe Acrobat - View as HTML

the heap **space. Incremental** garbage **collection** reduces this amount of ... The highwater **mark** is the critical number from a performance standpoint. ...

www.iona.com/support/docs/e2a/asp/6.0/j2ee/performance/performance.pdf - Similar pages

## [PDF] BUILDING ON EXCELLENCE

File Format: PDF/Adobe Acrobat

How do we know if we are hitting the **mark** in doing good and pursuing ... **global** change studies and ecological forecasting, building on the current strengths ... www.planning.duke.edu/univupdatell.pdf - <u>Similar pages</u>

System and method of image generation and encoding using primitive ... and wherein the step d) of removing comprises marking as unused the n-th location in ... In this technique image-space incremental integer operations are ... www.freepatentsonline.com/6057847.html - 491k - Cached - Similar pages

System and method of image generation and encoding using primitive ... In this method the global visibility array is first zeroed and then all exposed ... In this technique image-space incremental integer operations are ... www.freepatentsonline.com/6111582.html - 491k - Cached - Similar pages

## [PDF] DB2 UDB V8.2 on the he Windows Environment vironment

File Format: PDF/Adobe Acrobat

With automatic statistics **collection** enabled, DB2 automatically runs the ... for re-creating invalid indexes on the primary database, which would **mark** ... www.redbooks.ibm.com/redbooks/pdfs/sg247102.pdf - Similar pages

[PDF] Advanced Techniques for Efficient Data Integrity Checking

File Format: PDF/Adobe Acrobat Databases, however, usually contain very large collections of data that ... mark, as part of the Federated Logic Conference (FLoC), volume 95 of Datalogiske ... www.ruc.dk/dat/forskning/skrifter/DS105.pdf - Similar pages

[PDF] Session # 706 Technology for the Small Office: Coping with a ... File Format: PDF/Adobe Acrobat - View as HTML any collection of documents and matter-specific information. That ... customers to do an awful lot of their own research with the check images," said Mark ... downloads.ohiobar.org/conventions/convention2005/Session%20706%20Technology% 20for%20the%20Small%20Office.pdf - Similar pages

Did you mean to search for: global marketing and space-incremental collection

Google ▶ 1 2

Result Page:

Free! Speed up the web. Download the Google Web Accelerator.

global marking and space-increment Search

Search within results | Language Tools | Search Tips | Dissatisfied? Help us improve

Google Home - Advertising Programs - Business Solutions - About Google

©2006 Google

Java | Solaris Communities | Partners | My Sun | Sun Store

United States | Worldwide

Products Downloads Services & Solutions Support Training Research

Home > Research >

#### Research Home

- » Spotlight Articles
- » Projects
- » Publications
- » People
- » Awards
- » Events
- » Downloads
- » Internships
- » Contrarian Minds
- » About Sun Labs

## **Publications and Talks - Dave Detlefs**

## david.detlefs@east.sun.com

Here is a list of the publications that I have authored or co-authored. They are ordered by date, with most recent first. Selected Talks are listed below.

#### **Publications**

1. Compile-Time Concurrent Marking Write Barrier Removal

V. Krishna Nandivada and David Detlefs

To Appear In 2005 International Symposium on Code Generation and Optimization (CGO), March, 2005. (PDF)

2. Garbage-First Garbage Collection.

David Detlefs, Christine Flood, Steven Heller, and Tony Printezis.

Proceedings of The 2004 International Symposium on Memory Management. (PDF)

3. DCAS is not a Silver Bullet for Nonblocking Algorithm Design.

Simon Doherty, David L. Detlets, Lindsay Groves, Christine H. Flood, Victor Luchangco, Paul A. Martin, Mark Moir, Nir Shavit, and Guy L. Steele, Jr. Proceedings of the Sixteenth ACM Symposium on Parallelism in Algorithms and Architechtures, June, 2004. (PDF)

4. A Hard Look at Hard Real-Time Garbage Collection.

David Detlefs.

Seventh IEEE International Symposium on Object-Oriented Real-Time Distributed Computing (ISORC'04). (PDF)

5. Simplify: A Theorem Prover for Program Checking.

David L. Detlefs, Greg Nelson, and James B. Saxe.

HP Labs Technical Report HPL-2003-148. (Postscript, PDF)

6. Concurrent Remembered Set Refinement in Generational Garbage Collection

David Detlefs, Ross Knippel, William D. Clinger, Matthias Jacob.

In proceedings of 2002 USENIX Java VM Research and Technology Symposium. (PDF, postscript, html)

7. Lock-Free Reference Counting

David L. Detlefs, Paul A. Martin, Mark Moir, Guy L. Steele Jr.

In proceedings of PODC 2001.

(postscript)

Journal version: Distributed Computing 15(4).

8. Even Better DCAS-Based Concurrent Deques

David L. Detlefs, Christine H. Flood, Alexander T. Garthwaite, Paul A. Martin, Nir N. Shavit, and Guy L. Steele Jr.

In proceedings of DISC2000 (LNCS, Springer-Verlag). (postscript)

 Parallel Garbage-Collection for Shared Memory Multiprocessors Christine Flood, <u>Dave Detlers</u> Nir Shavit, Catherine Zhang. In 2001 USENIX Java Virtual Machine Research and Technology Sympoium. (PDF, postscript)

#### 10. A Generational Mostly-Concurrent Garbage Collector.

Dave Detlefs and Tony Printezis.

Sun Labs TR-2000-88 (PDF, postscript)

Shorter version appeared in ISMM2000: ( PDF, postscript)

#### 11. DCAS-Based Concurrent Deques.

Ole Agesen David L. Detlefs, Christine H. Flood, Alexander T. Garthwaite, Paul A. Martin, Nir N. Shavit, and Guy L. Steele Jr. In SPAA 2000. (postscript).

Journal version in Theory of Computing Systems, 35:(3).

## 12. The Case for Multiple Compilers.

David Detlefs and Ole Agesen.

OOPSLA '99 VM Workshop: Simplicity, Performance and Portability in Virtual Machine Design.

Extended Abstract. (PDF, postscript).

#### 13. An Efficient Meta-lock-for Implementing Ubiquitous Synchronization

Ole Ageset, David Detlefs Alex Garthwaite, Ross Knippel, Y.S. Ramakrishna,

Derek White.

October, 1999.

(Sun Labs TR-99-76, OOPSLA '99 PDF, postscript)

#### 14. Inlining of Virtual Methods.

David L. Detlets and Ole Agesen. In Proceedings of the Thirteenth European Conference on Object-Oriented Programming, Lisbon, Portugal, June, 1999 (Postscript, PDF).

#### 15. Garbage Collection and Local Variable Type Precision in Java (TM) Virtual Machines.

Ole Agesen, David L. Detlefs, and J. Eliot B. Moss.

In Proceedings of the ACM SIGPLAN '98 Conference on Programming Language Design and Implementation, p. 269-279, ACM SIGSOFT, June, 1998. (Postscript).

# 16. Finding References in Java<sup>TM</sup> Stacks.

Ole Agesen and David Detlets

OOPSLA97 Workshop on Garbage Collection and Memory Management, 10/97, Atlanta, GA. (postscript)

#### 17. Extended Static Checking.

(David L. Detlefs,)K. Rustan M. Leino, Greg Nelson, and James B. Saxe. SRC Research Report 159. (Postscript, PDF)

## 18. Wrestling with Rep Exposure.

David L. Detlefs, K. Rustan M. Leino, and Greg Nelson. SRC-Research Report 156. (Postscript, PDF)

#### An Overview of the Extended Static Checking System.

David L. Detlefs\_

Proceedings of The First Workshop on Formal Methods in Software Practice, p. 1-9, ACM SIGSOFT, January, 1996. (Postscript).

#### 20. Debugging Storage Management Problems in Garbage-Collected Epvironments.

David L. Detlefs and Bill Kalsow.

In USENIX Conference on Object-Oriented Technologies Conference Proceedings, Monterey, CA, June 26-29, 1994, pages 69-82. (Postscript).

## 21. Memory Allocation Costs in Large C and C++ Programs.

David L. Detlefs, Al Dosser, and Ben Zorn.

Software Practice and Experience, 24(6):527-542, June 1994. Also available as University of Colorado at Boulder Tech Report CU-CS-665-92. (Postscript)

## 22. Empirical Evidence for using Garbage Collection in C and C++ Programs.

David L. Detlefs, Al Dosser, and Benjamin Zorn.

In Proceedings of 1993 ACM OOPSLA Workship on Garbage Collection,, September, 1993. (Postscript).

## 23. Safe, Efficient Garbage Collection for C++.

John R. Ellis and David L. Detlefs.

Research Report 102, Digital Equipment Corporation Systems Research Center, Palo Alto, CA, June 1993. (Postscript).

#### 24. Garbage Collection and Run-time Typing as a C++ Library.

David L. Detlefs.)

n Procedings of the 1992 USENIX C++ Conference, August 1992, pages 37-56. (Postscript).

## 25. Concurrent, Atomic, Garbage Collection.

David L. Detlefs:

Ph.D. Thesis; available as Carnegie Mellon School of Computer Science Technical Report CMU-CS-90-177, October 1990. (Postscript).

## 26. Concurrent Garbage Collection for C++.

David L. Detlefs.

Carnegie Mellon School of Computer Science Technical Report CMU-CS-90-119, May 1990. (Postscript).

# 27. Inheritance of synchronization and recovery properties in Avalon/C++.

David Detlefs, Maurice Herlihy, and Jeannette Wing. IEEE Computer, 21(12), December, 1988.

## 28. The Avalon/C++ Programming Language (Version 0).

Maurice Herlihy, Jeannette Wing, David Detlefs, Stewart Clamen, Karen Keitzke, Richard Lerner, and Su-Yuen Ling. Carnegie Mellon School of Computer Science Technical Report CMU-CS-88-209, December, 1988.

## 29. Avalon/C++: C++ Extensions for Transaction-based Programming. In The Proceedings of the 1987 USENIX C++ Workshop

David Detlefs, Maurice Herlihy, Jeannette Wing and Karen Kietzke. November 1987, pages 451-459.

# 30. A Procedure for Automatically Proving the Termination of a Set of Rewrite

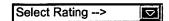
David Detlefs and Randy Forgaard.

In The Proceedings of the First International Conference on Rewriting Techniques and Applications, May, 1985, University of Dijon, France.

#### External Talks

- 1. Talk in November 2002 at Fidelity Investments in Boston on Parallelism and Concurrency in Garbage Collection (version 3).
- 2. Talk in July 2002 at USENIX JVM in San Francisco on Concurrent Remembered Set Refinment in Generational Garbage Collection.
- 3. Talk in May 2002 at SAP Labs in Palo Alto on Parallelism and Concurrency in Garbage Collection (version 2).
- 4. Talk in April 2002 at Williams College on Parallelism and Concurrency in Garbage Collection (version 1).
- Talk in March 2000 at Brown University on the JTech Group's Work on Scalable Old-Gen GC.
- Talk in October 1998 at Rice University on work in Inlining of Virtual Methods. (tar file)
- 7. Talk in July 1998 at University of Colorado on work in JIT optimizations. (tar file)
- Presented paper on An Overview of the Extended Static Checking System at the First Workshop on Formal Methods in Software Practice, co-located with ISSTA 96, in San Diego, CA, January, 1996.
- Presented paper on Debugging Storage Management Problems in Garbage-Collected Heaps at the USENIX Conference on Object-Oriented Technologies, in Monterey, CA on June 28, 1995. (Also extra figures.)
- Talk on Extended Static Checking. (The talk references two sets of slides showing examples: Sequence and Pivot.) I gave this talk at CMU, MIT, and Digital's Spitbrook facility (ZKO) in February of 1995.
- Empirical Evidence for using Garbage Collection in C and C++ Programs.
   Presented talks based on this paper at the 1993 SRC Review and at the 1993 ACM OOPSLA Workshop on Garbage Collection, September, 1993, Washington, DC.
- 12. Garbage Collection and Run-time Typing as a C++ Library. Presented at the 1992 USENIX C++ Conference, August 1992, Portland, OR.
- 13. Concurrent, Atomic, Garbage Collection. Presented short talk at 1990 ACM OOPSLA Workshop on Garbage Collection, October, 1990, Ottowa, CA.
- 14. Avalon/C++: C++ Extensions for Transaction-based Programming. Presented at the 1987 USENIX C++ Workshop, November, 1987, Sante Fe, NM.
- 15. A Procedure for Automatically Proving the Termination of a Set of Rewrite Rules. Presented at the First International Conference on Rewriting Techniques and Applications, May, 1985, University of Dijon, France.

Would you recommend this Sun site to a friend or colleague?





Contact | About Sun | News | Employment | Privacy | Terms of Use | Trademarks | Copyright 1994-2006 Sun Microsystems, Inc.